

DECLARATION FOR PATENT APPLICATION

As a below named inventor, I declare that I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

47 Human Secreted Proteins

the specification of which is filed **June 9, 2000**, Application Serial No. **09/591,316**.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application, which designated at least one country other than the United States listed below, and have also identified below any foreign application for patent or inventor's certificate, or PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s):

<u>Priority Claimed</u>	
Yes	No

(Number)	(Country)	(Day/Month/Year Filed)
----------	-----------	------------------------

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below.

Appln Serial No.	Filing Date
60/113,006	1998-12-18
60/112,809	1998-12-17

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) or of any PCT international application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information that is material to patentability as defined in 37 C.F.R. § 1.56 that became available between the filing date of the prior application and the national or PCT international filing date of this application.

PCT/US99/29950 1999-12-16 Pending
 (Application Serial No.) (Filing Date) (Status: patented, pending, abandoned)

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith James H. Davis (Reg. No. 40,582), Kenley K. Hoover (Reg. No. 40,302), Michele M. Wales (Reg. No. 43,975), Joseph Kenny (Reg. No. 43,710), and Jonathan L. Klein (Reg. No. 41,119) of Human Genome Sciences, Inc. 9410 Key West Avenue, Rockville, Maryland, 20850.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of first joint inventor: Steven M. Ruben

Inventor's signature: Al Ruben Date: 9/13/00
 Residence: 18528 Heritage Hills Drive, Olney, MD 20832 Citizenship: US
 Post Office Address: same as above

Full name of additional joint inventor: Reinhard Ebner

Inventor's signature: _____ Date: _____
 Residence: 9906 Shelburne Terrace #316, Gaithersburg, MD Citizenship: DE
20878
 Post Office Address: same as above

Full name of additional joint inventor: Craig A. Rosen

Inventor's signature: Craig A. Rosen Date: 10/19/00
 Residence: 22400 Rolling Hill Road, Laytonsville, MD 20882 Citizenship: US
 Post Office Address: same as above

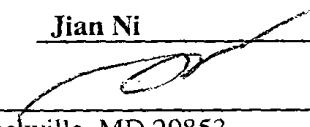
Full name of additional joint inventor: Gregory A. Endress

Inventor's signature: _____ Date: _____
 Residence: 113 Granville Drive, Silver Spring, MD 20901 Citizenship: US
 Post Office Address: same as above

Full name of additional joint inventor: Daniel R. Soppet

Inventor's signature: _____ Date: _____
 Residence: 15050 Stillfield Place, Centreville, VA 22020 Citizenship: US
 Post Office Address: same as above

Full name of first joint inventor: Jian Ni

Inventor's signature:  Date: 9/8/03
 Residence: 5502 Manorfield Road, Rockville, MD 20853 Citizenship: US
 Post Office Address: same as above

Full name of additional joint inventor: Roxanne D. Duan

Inventor's signature: Roxanne Duan Date: 9/9/2003
 Residence: 5515 Northfield Road, Bethesda, MD 20817 Citizenship: US
 Post Office Address: same as above

Full name of additional joint inventor: Paul A. Moore

Inventor's signature: Paul Moore Date: 9/13/03
 Residence: 19005 Leatherbark Drive, Germantown, MD 20874 Citizenship: UK
 Post Office Address: same as above

Full name of additional joint inventor: Yanggu Shi

Inventor's signature: Yanggu Shi Date: 9/13/03
 Residence: 437 West Side Drive, Apt. 102, Gaithersburg, MD 20878 Citizenship: CN
 Post Office Address: same as above

Full name of additional joint inventor: David W. LaFleur

Inventor's signature: David W. LaFleur Date: 9/8/02

Residence: 3142 Quesada Street, N.W., Washington, D.C. 20015 Citizenship: US

Post Office Address: same as above

Full name of additional joint inventor: Henrik S. Olsen

Inventor's signature: Henrik Olsen Date: 9/8/2002

Residence: 182 Kendrick Place, #24, Gaithersburg, MD 20878 Citizenship: DK

Post Office Address: same as above

Full name of additional joint inventor: Kimberly A. Florence

Inventor's signature: Kimberly A. Florence Date: 10/11/02

Residence: 12805 Atlantic Avenue, Rockville, MD 20851 Citizenship: US

Post Office Address: same as above

DECLARATION FOR PATENT APPLICATION

As a below named inventor, I declare that I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

47 Human Secreted Proteins

the specification of which is filed **June 9, 2000**, Application Serial No. **09/591,316**.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application, which designated at least one country other than the United States listed below, and have also identified below any foreign application for patent or inventor's certificate, or PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s):

<u>Priority Claimed</u>	
Yes	No

(Number)	(Country)	(Day/Month/Year Filed)
----------	-----------	------------------------

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below.

Appln Serial No.	Filing Date
60/113,006	1998-12-18
60/112,809	1998-12-17

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) or of any PCT international application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information that is material to patentability as defined in 37 C.F.R. § 1.56 that became available between the filing date of the prior application and the national or PCT international filing date of this application.

PCT/US99/29950 (Application Serial No.)	1999-12-16 (Filing Date)	Pending (Status: patented, pending, abandoned)
--	-----------------------------	---

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith James H. Davis (Reg. No. 40,582), Kenley K. Hoover (Reg. No. 40,302), Michele M. Wales (Reg. No. 43,975), Joseph Kenny (Reg. No. 43,710), and Jonathan L. Klein (Reg. No. 41,119) of Human Genome Sciences, Inc. 9410 Key West Avenue, Rockville, Maryland, 20850.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of first joint inventor: Steven M. Ruben

Inventor's signature: _____ Date: _____
 Residence: 18528 Heritage Hills Drive, Olney, MD 20832 Citizenship: US
 Post Office Address: same as above

Full name of additional joint inventor: Reinhard Ebner

Inventor's signature: Reinhard Ebner Date: 9/12/2005
 Residence: 9906 Shelburne Terrace #316, Gaithersburg, MD 20878 Citizenship: DE
 Post Office Address: same as above

Full name of additional joint inventor: Craig A. Rosen

Inventor's signature: _____ Date: _____
 Residence: 22400 Rolling Hill Road, Laytonsville, MD 20882 Citizenship: US
 Post Office Address: same as above

Full name of additional joint inventor: Gregory A. Endress

Inventor's signature: _____ Date: _____
 Residence: 113 Granville Drive, Silver Spring, MD 20901 Citizenship: US
 Post Office Address: same as above

Full name of additional joint inventor: Daniel R. Soppet

Inventor's signature: _____ Date: _____
 Residence: 15050 Stillfield Place, Centreville, VA 22020 Citizenship: US
 Post Office Address: same as above

Full name of first joint inventor: Jian Ni

Inventor's signature: _____ Date: _____
 Residence: 5502 Manorfield Road, Rockville, MD 20853 Citizenship: US
 Post Office Address: same as above

Full name of additional joint inventor: Roxanne D. Duan

Inventor's signature: _____ Date: _____
 Residence: 5515 Northfield Road, Bethesda, MD 20817 Citizenship: US
 Post Office Address: same as above

Full name of additional joint inventor: Paul A. Moore

Inventor's signature: _____ Date: _____
 Residence: 19005 Leatherbark Drive, Germantown, MD 20874 Citizenship: UK
 Post Office Address: same as above

Full name of additional joint inventor: Yanggu Shi

Inventor's signature: _____ Date: _____
 Residence: 437 West Side Drive, Apt. 102, Gaithersburg,
MD 20878 Citizenship: CN
 Post Office Address: same as above

Full name of additional joint inventor: David W. LaFleur

Inventor's signature: _____ Date: _____
Residence: 3142 Quesada Street, N.W., Washington, D.C. 20015 Citizenship: US
Post Office Address: same as above

Full name of additional joint inventor: Henrik S. Olsen

Inventor's signature: _____ Date: _____
Residence: 182 Kendrick Place, #24, Gaithersburg, MD 20878 Citizenship: DK
Post Office Address: same as above

Full name of additional joint inventor: Kimberly A. Florence

Inventor's signature: _____ Date: _____
Residence: 12805 Atlantic Avenue, Rockville, MD 20851 Citizenship: US
Post Office Address: same as above

DECLARATION FOR PATENT APPLICATION

As a below named inventor, I declare that I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

47 Human Secreted Proteins

the specification of which is filed June 9, 2000, Application Serial No. 09/591,316.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application, which designated at least one country other than the United States listed below, and have also identified below any foreign application for patent or inventor's certificate, or PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s):

<u>Priority Claimed</u>	
Yes	No

<u>(Number)</u>	<u>(Country)</u>	<u>(Day/Month/Year Filed)</u>
-----------------	------------------	-------------------------------

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below.

<u>Appln Serial No.</u>	<u>Filing Date</u>
60/113,006	1998-12-18
60/112,809	1998-12-17

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) or of any PCT international application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information that is material to patentability as defined in 37 C.F.R. § 1.56 that became available between the filing date of the prior application and the national or PCT international filing date of this application.

PCT/US99/29950 (Application Serial No.)	1999-12-16 (Filing Date)	Pending (Status: patented, pending, abandoned)
--	-----------------------------	---

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith James H. Davis (Reg. No. 40,582), Kenley K. Hoover (Reg. No. 40,302), Michele M. Wales (Reg. No. 43,975), Joseph Kenny (Reg. No. 43,710), and Jonathan L. Klein (Reg. No. 41,119) of Human Genome Sciences, Inc. 9410 Key West Avenue, Rockville, Maryland, 20850.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of first joint inventor: Steven M. Ruben

Inventor's signature: _____ Date: _____
 Residence: 18528 Heritage Hills Drive, Olney, MD 20832 Citizenship: US
 Post Office Address: same as above

Full name of additional joint inventor: Reinhard Ebner

Inventor's signature: _____ Date: _____
 Residence: 9906 Shelburne Terrace #316, Gaithersburg, MD Citizenship: DE
20878
 Post Office Address: same as above

Full name of additional joint inventor: Craig A. Rosen

Inventor's signature: _____ Date: _____
 Residence: 22400 Rolling Hill Road, Laytonsville, MD 20882 Citizenship: US
 Post Office Address: same as above

Full name of additional joint inventor: Gregory A. Endress

Inventor's signature: _____ Date: _____
 Residence: 113 Granville Drive, Silver Spring, MD 20901 Citizenship: US
 Post Office Address: same as above

Full name of additional joint inventor: Daniel R. Soppet

Inventor's signature: Daniel R. Soppet Date: 9/12/02
 Residence: 15050 Stillfield Place, Centreville, VA 22020 Citizenship: US
 Post Office Address: same as above

Full name of first joint inventor: Jian Ni

Inventor's signature: _____ Date: _____
 Residence: 5502 Manorfield Road, Rockville, MD 20853 Citizenship: US
 Post Office Address: same as above

Full name of additional joint inventor: Roxanne D. Duan

Inventor's signature: _____ Date: _____
 Residence: 5515 Northfield Road, Bethesda, MD 20817 Citizenship: US
 Post Office Address: same as above

Full name of additional joint inventor: Paul A. Moore

Inventor's signature: _____ Date: _____
 Residence: 19005 Leatherbark Drive, Germantown, MD 20874 Citizenship: UK
 Post Office Address: same as above

Full name of additional joint inventor: Yanggu Shi

Inventor's signature: _____ Date: _____
 Residence: 437 West Side Drive, Apt. 102, Gaithersburg,
MD 20878 Citizenship: CN
 Post Office Address: same as above

Full name of additional joint inventor: David W. LaFleur

Inventor's signature: _____ Date: _____
Residence: 3142 Quesada Street, N.W., Washington, D.C. 20015 Citizenship: US
Post Office Address: same as above

Full name of additional joint inventor: Henrik S. Olsen

Inventor's signature: _____ Date: _____
Residence: 182 Kendrick Place, #24, Gaithersburg, MD 20878 Citizenship: DK
Post Office Address: same as above

Full name of additional joint inventor: Kimberly A. Florence

Inventor's signature: _____ Date: _____
Residence: 12805 Atlantic Avenue, Rockville, MD 20851 Citizenship: US
Post Office Address: same as above

DECLARATION FOR PATENT APPLICATION

As a below named inventor, I declare that I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

47 Human Secreted Proteins

the specification of which is filed **June 9, 2000**, Application Serial No. **09/591,316**.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application, which designated at least one country other than the United States listed below, and have also identified below any foreign application for patent or inventor's certificate, or PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s):

<u>Priority Claimed</u>	
Yes	No

(Number)	(Country)	(Day/Month/Year Filed)
----------	-----------	------------------------

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below.

Appln Serial No.	Filing Date
60/113,006	1998-12-18
60/112,809	1998-12-17

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) or of any PCT international application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information that is material to patentability as defined in 37 C.F.R. § 1.56 that became available between the filing date of the prior application and the national or PCT international filing date of this application.

PCT/US99/29950 (Application Serial No.)	1999-12-16 (Filing Date)	Pending (Status: patented, pending, abandoned)
--	-----------------------------	---

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith James H. Davis (Reg. No. 40,582), Kenley K. Hoover (Reg. No. 40,302), Michele M. Wales (Reg. No. 43,975), Joseph Kenny (Reg. No. 43,710), and Jonathan L. Klein (Reg. No. 41,119) of Human Genome Sciences, Inc. 9410 Key West Avenue, Rockville, Maryland, 20850.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of first joint inventor: Steven M. Ruben

Inventor's signature: _____ Date: _____
 Residence: 18528 Heritage Hills Drive, Olney, MD 20832 Citizenship: US
 Post Office Address: same as above

Full name of additional joint inventor: Reinhard Ebner

Inventor's signature: _____ Date: _____
 Residence: 9906 Shelburne Terrace #316, Gaithersburg, MD Citizenship: DE
20878
 Post Office Address: same as above

Full name of additional joint inventor: Craig A. Rosen

Inventor's signature: _____ Date: _____
 Residence: 22400 Rolling Hill Road, Laytonsville, MD 20882 Citizenship: US
 Post Office Address: same as above

Full name of additional joint inventor: Gregory A. Endress

Inventor's signature: Gregory A. Endress Date: 9/15/2000

Residence: 113 Granville Drive, Silver Spring, MD 20901 Citizenship: US

Post Office Address: same as above

Full name of additional joint inventor: Daniel R. Soppet

Inventor's signature: _____ Date: _____

Residence: 15050 Stillfield Place, Centreville, VA 22020 Citizenship: US

Post Office Address: same as above

Full name of first joint inventor: Jian Ni

Inventor's signature: _____ Date: _____

Residence: 5502 Manorfield Road, Rockville, MD 20853 Citizenship: US

Post Office Address: same as above

Full name of additional joint inventor: Roxanne D. Duan

Inventor's signature: _____ Date: _____

Residence: 5515 Northfield Road, Bethesda, MD 20817 Citizenship: US

Post Office Address: same as above

Full name of additional joint inventor: Paul A. Moore

Inventor's signature: _____ Date: _____

Residence: 19005 Leatherbark Drive, Germantown, MD 20874 Citizenship: UK

Post Office Address: same as above

Full name of additional joint inventor: Yanggu Shi

Inventor's signature: _____ Date: _____

Residence: 437 West Side Drive, Apt. 102, Gaithersburg,
MD 20878 Citizenship: CN

Post Office Address: same as above

Full name of additional joint inventor: David W. LaFleur

Inventor's signature: _____ Date: _____
Residence: 3142 Quesada Street, N.W., Washington, D.C. 20015 Citizenship: US
Post Office Address: same as above

Full name of additional joint inventor: Henrik S. Olsen

Inventor's signature: _____ Date: _____
Residence: 182 Kendrick Place, #24, Gaithersburg, MD 20878 Citizenship: _____
Post Office Address: same as above DK

Full name of additional joint inventor: Kimberly A. Florence

Inventor's signature: _____ Date: _____
Residence: 12805 Atlantic Avenue, Rockville, MD 20851 Citizenship: US
Post Office Address: same as above